JOURNAL OF MOLECULAR LIQUIDS

Contents of Volume 44

Generalization of the Böttcher relation to time-dependent fields in the case of isotropic dielectrics
R. Diguet (Vandoeuvre-les-Nancy, France) 1
Relaxation intensity from dielectric loss data
M. Gupta and J.P. Shukla (Lucknow, India) 9
Dielectric relaxation studies of non-rigid binary systems in benzene solutions at different temperatures
G.L. Sharma and J.M. Gandhi (Jaipur, India) 17
Computer simulation and group theoretical statistical mechanics of liquid water and methyl chloride: Part 1, Neumann's principle
M.W. Evans and D.M. Heyes (Egham, U.K.) 27
Computer simulation and group theoretical statistical mechanics of liquid water and methyl chloride: Part 2, field effects
M.W. Evans and D.M. Heyes (Egham, U.K.) 39
The nature of freezing process in 'glasses'
S.S.N. Murthy (Bangalore, India) 51
Liquid crystal birefringence and electric dipole moment relationship with temperature, weak magnetic field and molecular geometry
M.C.L. Iglesias and M. Barón (Buenos Aires, Argentina) 63
On the experimental determination of the enantiomeric energy inequivalence
M.W. Evans (Egham, U.K.) 73
Model analysis of the anisotropic angular motion in liquid methylene bromide
D.N. Dixon and A.A. Rodriguez (Greenville, NC, U.S.A.) 79
Microwave absorption and relaxation processes of some binary systems of non-rigid polar molecules in benzene solutions at different temperatures
G.L. Sharma and J.M. Gandhi (Jaipur, India) 93
New fluctuation-dissipation theorems
M.W. Evans and D.M. Heyes (Egham, U.K.) 107
Asymmetric correlation functions in a sheared ensemble, consequencies for Langevin theory
M.W. Evans and D.M. Heyes (Egham, U.K.) 113
Kauzmann paradox and the structure of glass
S.S.N. Murthy (Andhra Pradesh, India) 119
Selected problems associated with calculation of microscopic correlation functions from the 0-THz spectrum
M.A. Załuska-Kotur (Warsaw, Poland) 141
Dielectric relaxation study of some haloanisole in various non-polar solvents
C. Aggarwal, R. Arya, J.M. Gandhi and M.L. Sisodia (Jaipur, India) 161
Cooperative proton jumps in hydrogen bond chains between phenols and amines in benzene
G.G. Siegel, F. Herrera (Mayagüez, Puerto Rico), Ph. Cappelle and P.L. Huyskens (Heverlee, Belgium) 175
Stochastic dynamics and function of proteins. Modelling the membrane ionic channels
A.P. Demchenko and V.A. Chinarov (Kiev, U.S.S.R.) 189
Ultrasonic absorption and sound velocity of dimethyl sulfoxide/water mixtures in the complete composition range
U. Kaatze, M. Brai, F.-D. Scholle and R. Pottel (Göttingen, F.R.G.) 197

The nature of decoupling of various relaxation processes in glass-forming liquids
S.S.N. Murthy (Guntur, India) 211
Origin of the skew of some low-temperature dielectric relaxations
J. Gilchrist (Grenoble, France) 231
Estimation of the three dimensional solubility parameter of copolymers of halogenated styrene
M. Opalički, Z. Gomzi and H.J. Mencer (Zagreb, Yugoslavia) 237
Calculation of the solvation contributions to free reorganization energy in electron transfer reactions and to vertical electron transition energy. Continuum representation of medium
I. Sheykhet, L. Edelstein, V. Levchuk and B. Simkin (Rostov-on-Don, U.S.S.R.) 247
Monte Carlo investigation of structure and dielectric properties of the electrode–water interface depending on electrode charge density
L. Edelstein, I. Sheykhet, V. Ekilik and B. Simkin (Rostov-on-Don, U.S.S.R.) 259
Theoretical investigation of changes in the thermodynamical properties of water in electrode–liquid interface during hydroxonium discharge
I. Sheykhet, L. Edelstein, B. Simkin and V. Ekilik (Rostov-on-Don, U.S.S.R.) 281

Erratum 293
Contents of Volume 44 295